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Job No.: CTCE/BBMP/W.No.15/KRIDL/CEMENT/2014-15

Date: 03.10.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Emergency works in Dasarahalli Ward No.15 (Construction and Improvements of RCC roads and Drains at Model Colony Ayyappa Choultry back side R/S in Ward No.15, Dasarahalli), BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/125/2014-15 Dated: 03.07.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	470 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.15/KRIDL/SAND/2014-15 : 03.10.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Emergency works in Dasarahalli Ward No.15 (Construction and Improvements of RCC roads and Drains at Model Colony Ayyappa Choultry back side R/S in Ward No.15, Dasarahalli), BBMP, Bangalore.

Reference : EE/DD/WO/125/2014-15 Dated: 03.07.2014

Date of Testing : 03.10.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	65	6.50	6.50	93.5	90-100
2.36	123	12.30	18.80	81.2	75-100
1.18	215	21.50	40.30	59.7	55-90
600 Micron	222	22.20	62.50	37.5	35-59
300 Micron	279	27.90	90.40	9.6	8-30
150 Micron	65	6.50	96.90	3.1	0-1

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ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
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Job No.: CTCE/BBMP/W.No.15/KRIDL/SAND/2014-15 : 03.10.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Emergency works in Dasarahalli Ward No.15 (Construction and Improvements of RCC roads and Drains at Model Colony Ayyappa Choultry back side R/S in Ward No.15, Dasarahalli), BBMP, Bangalore.

Reference : EE/DD/WO/125/2014-15 Dated: 03.07.2014

Date of Testing : 03.10.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	280	2.80	2.80	97.20	95-100
20	5325	53.25	56.05	43.95	30-70
10	2520	25.20	81.25	18.75	10-35
4.75	1525	15.25	96.50	3.50	0

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Job No.: CTCE/BBMP/W.No.15/KRIDL/Pre Cast Slab/2014-15 16.10.2014

TEST REPORT ON CONCRETE CORE (PRE CAST SLAB)

Name of Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Name of Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of work	:	Emergency works in Dasarahalli Ward No.15 (Construction and Improvements of RCC roads and Drains at Model Colony Ayyappa Choultry back side R/S in Ward No.15, Dasarahalli), BBMP, Bangalore.
Reference	:	EE/DD/WO/125/2014-15 Dated: 03.07.2014
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Precast Slab
Date of Testing	:	16.10.2014

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.403	2503.00	1.64	0.960	31.95	16.27	17.57	16.87	21.09
2	50.00	83.00	0.409	2509.66	1.66	0.965	32.65	16.63	17.96	17.33	21.66
3	50.00	84.00	0.416	2522.23	1.68	0.970	33.00	16.81	18.15	17.61	22.01

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Job No.: CTCE/BBMP/W.No.15/KRIDL/STEEL/2014-15 10.10.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Emergency works in Dasarahalli Ward No.15 (Construction and Improvements of RCC roads and Drains at Model Colony Ayyappa Choultry back side R/S in Ward No.15, Dasarahalli), BBMP, Bangalore.
Reference	:	EE/DD/WO/125/2014-15 Dated: 03.07.2014
Date of Test	:	10.10.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.10	O.K	O.K

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Job No.: CTCE/BBMP/W.No.15/KRIDL/STEEL/2014-15 10.10.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Emergency works in Dasarahalli Ward No.15 (Construction and Improvements of RCC roads and Drains at Model Colony Ayyappa Choultry back side R/S in Ward No.15, Dasarahalli), BBMP, Bangalore.
Reference	:	EE/DD/WO/125/2014-15 Dated: 03.07.2014
Date of Test	:	10.10.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.15/KRIDL/CUBE/2014-15

10.11.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Emergency works in Dasarahalli Ward No.15 (Construction and Improvements of RCC roads and Drains at Model Colony Ayyappa Choultry back side R/S in Ward No.15, Dasarahalli), BBMP, Bangalore.
Reference	: EE/DD/WO/125/2014-15 Dated: 03.07.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.10.2014	10.11.2014	8.126	496.3	22.06
2	13.10.2014	10.11.2014	8.347	518.7	23.05
3	13.10.2014	10.11.2014	8.262	502.9	22.35

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